Adarsh Alex

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OBJECTIVE

Seeking to leverage my experience and skills in Software Engineering to develop big data analytics and scalable applications.

EDUCATION

Wright State University, Dayton, Ohio, USA
Master of Science (M.S.) in Computer Science — Aug 2013 – Jul 2016

- Research areas: Exploiting knowledge encoded in Knowledge Graphs to enhance Text Mining, Natural Language Processing and Applied Machine Learning
- Thesis: Detecting and Classifying Implicit Entity Mentions in Tweets
- Advisor: Dr. Amit P. Sheth
- GPA: 3.5/4.00

Mumbai University, Mumbai, Maharashtra, India
Bachelor of Engineering (B.E.) in Computer Engineering — Aug 2009 – May 2013

SKILLS

- **Programming Languages**: Java, Python, C, C++.
- **Databases**: MySQL, Oracle, MongoDb, Neo4j.
- **Big Data Technologies**: Apache Hadoop(Mapreduce), Apache Storm.
- **Semantic Technologies**: RDF, SPARQL, OWL.
- **Web Technologies**: HTML, CSS, Javascript.
- **Tools and Software**: NLTK, Stanford CoreNLP, Gensim, OpenNLP, Weka, word2vec, git, svn.
- **Operating Systems**: Linux, Windows, Mac.

EXPERIENCE

Kno.e.sis Center, Wright State University
Graduate Research Assistant, Computer Science Department — Aug 2014 – Jul 2016

- **Implicit Entity Recognition and Linking in Unstructured Text** : Developed a framework for identifying tweets with Implicit Entity Mentions in unstructured text(Tweets and EMR documents) using Java and Weka.
  Designed and developed a system to link Implicit Entity Mentions to Wikipedia articles using factual knowledge extracted from Dbpedia and contextual knowledge extracted from Tweets.
- **Real Time Tweet Filtering** : Implemented an analysis pipeline engine for streaming data (Tweets) using Twitter Streaming API, Apache Storm and Mongo DB.
  Also developed a framework for real time noise filtering and feedback learning using Apache Storm and Weka.
- **eDrugTrends** : eDrugTrends is an inter-disciplinary project developed to monitor cannabis and synthetic cannabinoid use.
  My Work: Developed and extended an ontology to capture all the relationships between cannabinoids and synthetic cannabinoids using Protege.

ezDI, LLC, Ahmedabad, Gujarat, India
Research Intern — May 2014 – Aug 2014

- Developed an approach for automatic knowledge acquisition from Electronic Medical Record's using Java, Virtuoso and Neo4j to enhance knowledge graph by leveraging domain knowledge and applying semantic techniques.

Wright State University, Dayton, Ohio, USA
Student, Computer Science Department — Aug 2013 – Jul 2016

- **Broadcast Service** : Designed and developed a broadcasting service in Java using multi-threading.
- **Distributed K-Means** : Set up a single node Hadoop cluster.
  Implemented a distributed K-Means clustering algorithm using the Mapreduce paradigm.

PUBLICATIONS

- Adarsh Alex, Sujan Perera, Amit Sheth "**Detecting and Classifying Implicit Entity Mentions in Tweets**" *Technical Report* [Work in Progress].
- Sujan Perera, Pablo N. Mendes, Amit P. Sheth, Krishnaprasad Thirunarayan, Adarsh Alex, Christopher Heid, Greg Mott "**Implicit Entity Recognition in Clinical Documents**," *In proceedings of The Fourth Joint Conference on Lexical and Computational Semantics (*SEM)*, Jun 2015.
- Sujan Perera, Pablo N. Mendes, Adarsh Alex, Amit P. Sheth, Krishnaprasad Thirunarayan "**Implicit Entity Linking in Tweets**," *In Extended Semantic Web Conference (ESWC)*, May 2016.